

University of Missouri

Bachelor of Science in Biology

Transfer Guide for Jefferson College

This plan is intended only as a general guide based on requirements in the 2013-2014 University of Missouri undergraduate catalog. You will need to complete a total of 120 hours in order to graduate. It will take roughly 90 to 110 credit hours to fulfill the requirements specific to the degrees offered in Biological Sciences. You may use elective courses to bring your total credit hours to 120.

At least 30 of the hours must be in courses at the 3000-level or higher. (Biology 2200 and 2300 and Chemistry 2100, 2110 and 2130 may be used to meet the 3000-level requirement.)

Check the following web sites for current course descriptions, prerequisites, course equivalencies and other specific details about the Biology major:

- 1) College Catalog (<http://registrar.missouri.edu>)
- 2) Transfer Equivalencies (<http://transfercourses.missouri.edu> or <http://transfer.org>)
- 3) General Education (<http://generaleducation.missouri.edu>)
- 4) Biological Sciences (<http://biology.missouri.edu/undergrad/>)

For more information about the Biological Sciences degree, please contact the Biology Advising Office at (573) 882-4068.

University of Missouri		Jefferson College
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)
College Algebra (3)		
MATH 1100 College Algebra	3	MTH 134 College Algebra (3)
Mathematical Sciences (5-6)		
<i>Select one option:</i>		
MATH 1400 Calculus for Social/Natural Sciences and MATH 2100 Calculus for Social/Natural Sciences I	6	MTH 161 Calculus for Bus (3) and MATH 2100 at MU
MATH 1500 Analytic Geometry and Calculus I	5	MTH 180 Calculus I (5)
STAT 1400 Elem Stat for Life Sciences and CMP SC 1040 Intro to Problem Solving & Programming	6	MTH 168 Probability and Statistics (MRP) (3) and CMP SC 1040 at MU
Chemistry (16 credits)		
CHEM 1320 College Chemistry I	4	CHM 111 Gen Chemistry I (5)
CHEM 1330 College Chemistry II	4	CHM 112 Gen Chemistry II (5)
CHEM 2100 Organic Chemistry I	3	CHM 200 Organic Chem I (5)
CHEM 2110 Organic Chemistry II	3	CHM 201 Organic Chem II (5)
CHEM 2130 Organic Chemistry I Lab	2	CHM 200 Organic Chem I (5)
Physics (8-10 credits)		
<i>Select one option:</i>		
PHYS 1210 College Physics I and Lab and PHYS 1220 College Physics II and Lab	8	PHY 111 Elem Coll Physics I (5) and PHY 112 Elem Coll Physics II (4)
PHYS 2750 University Physics I and Lab and PHYS 2760 University Physics II and Lab	10	PHY 223 Gen Physics I (4) and PHY 224 Gen Physics II (4)
English Exposition and Argumentation (3 credits)		
ENGLSH 1000 Exposition and Argumentation	3	ENG 102 English Comp II (3)
*Behavioral Sciences (5 credits)		
Behavioral Science 1	3	Select behavioral sciences from the general education list.
Behavioral Science 2	2-3	
*Social Sciences (9 credits) Courses from at least two different departments.		
State Requirement in Government or History	3	Select state requirement from the general education list.
Social Science 2	3	Select social sciences from the general education list.
Social Science 3	3	
*Humanities/Fine Arts (12 credits) Courses from at least three different areas.		
Humanity 1	3	Select humanities from the general education list.
Humanity 2	3	
Humanity 3	3	
Humanity 4	3	
Foreign Language (12-13 credits) Must be in the same language. <i>Requirement is waived if level 4 of single foreign language was completed in high school.</i>		
Language 1	5	Select language courses from the general education list.
Language 2	5	
Language 3	3	
Upper Level General Education (9 credits) At least 9 credits of behavioral science, social science, or humanities must be at the 2000-level or above.		
<input checked="" type="checkbox"/> Upper-level general education courses may also count toward other general education requirements (behavioral sciences, social sciences, or humanities).		

University of Missouri		Jefferson College
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)
*Upper Level 1	3	Select 200-level/2000-level A&S courses from behavioral science, social science, or humanity on the general education list. Level is based upon the community college course number, NOT the MU equivalent. Must be taken at MU.
*Upper Level 2	3	
Upper Level 3	3	
Writing Intensive (2 courses) Must be completed with a C- or better.		
*Writing Intensive course from anywhere in the curriculum	3	Must be taken at MU unless waived via completion of an AA degree.
Writing Intensive course numbered 3000 or above in biology	3	Must be taken at MU.
Biological Sciences (33 credits) At least 14 credits in Biology must be completed at the 3000-level or higher		
BIO SC 1500 Introduction to Biological Systems	5	BIO 205 Gen Botany (5) and BIO 206 Gen Zoology (5)
BIO SC 2200 General Genetics	4	BIO 201 Genetics (4)
BIO SC 2300 Cell Biology	4	None
Evolutionary Biology (<i>select one course</i>) BIO SC 3400 Evolution and Ecology BIO SC 4600 Evolution	3	None
Biological Diversity (<i>select one course</i>) BIO SC 2600 Ornithology BIO SC 2700 Ichthyology MICROB 3200 - Medical Microbiology and Immunology BIO SC 3210 Plant Systematics BIO SC 3260 Invertebrate Zoology BIO SC 3510 Biology of Fungi BIO SC 3660 Mammalogy BIO SC 3710 & 3715 Intro Entomology/Insect Diversity	3-5	None
Capstone (<i>select one course</i>) BIO SC 4950/4952 Undergraduate Research in Biology BIO SC 4976 Molecular Biology BIO SC 4978 Cancer Biology BIO SC 4982 Human Inherited Diseases BIO SC 4983 Molecular Ecology BIO SC 4984 Mammalian Reproductive Biology BIO SC 4986 Neurology of Motor Systems BIO SC 4988 Nerve Cells and Behavior BIO SC 4990 Vertebrate Histology & Microscopic Anat BIO SC 4994 Senior Seminar	3-5	None
Biology Electives Bio Elective Credit (Physiology) Bio Elective Credit (Microbiology) Other Bio Elective Credit	7-11	BIO 211 and 212 Anat & Physio I & II (max credits of 4 hours) BIO 215 Gen Microbiology (5) BIO 207 Vertebrate Anat (4) BIO 208 Vertebrate Physio (4) BIO 224 Field Biology (4)
Electives		
Choose electives to reach the total of 120 credits required for graduation.		
Total Hours for BS in Biological Sciences	120	

*Requirement is automatically satisfied upon the completion of an Associate of Arts (AA) degree.

General Education Courses

Jefferson College

<u>Jefferson College Course</u>	<u>MU Equivalent</u>	<u>Jefferson College Course</u>	<u>MU Equivalent</u>
Behavioral Sciences		Social Sciences (◆=State Requirement)	
PSY 101 Gen Psychology (3)	PSYCH 1000	ECO 100 Intro to Econ (3)	ECONOM SSC
PSY 101H Hon Gen Psych (3)	PSYCH 1000	ECO 101 Macroeconomics (3)	ECONOM 1015
PSY 120 Psych of Pers Adjust (3)	PSYCH BEH	ECO 102 Microeconomics (3)	ECONOM 1014
PSY 201 Child Development (3)	PSYCH 2410	GEO 103 World Reg Geog (3)	GEOG SSC
PSY 202 Adolescent Psych (3)	PSYCH BEH	GEO 120 Sem in Global Stds (1)	MISC SSC
PSY 205 Human Development (3)	PSYCH BEH	◆HST 103 US Hist to Reconstr (3)	HIST 1100
SOC 101 Gen Sociology (3)	SOCIOL 1000	◆HST 103H Honors US Hist to Recon (3)	HIST 1100
SOC 125 Human Diversity (3)	SOCIOL BEH	◆HST 104 US Hist from Reconstr (3)	HIST 1200
SOC 210 Alcohol, Drugs & Soc (3)	SOCIOL BEH	◆HST 104H Honors US Hist from Recon (3)	HIST 1200
SOC 240 Marriage & Family (3)	SOCIOL 3420	HST 130 American Stds (3)	MISC SSC
SOC 250 Social Disorganization (3)	SOCIOL 1650	HST 201 Ancnt/Medieval Civil (3)	HIST 1500
		HST 202 Renaiss to Mod Euro (3)	HIST 1510
		HST 203 Modern Europe (3)	HIST 3540
		HST 205 African-Amer Hist (3)	HIST 1410
Humanities		HST 210 Asian Civil (3)	HIST SSC
ART 101 Art Appreciation (3)	ART_GNR1020	HST 230 Women in Amer Hist (3)	HIST 2400
ART 103 Survey of Art I (3)	AR_H_A 1110	HST 235 Women in Hist (3)	HIST 2400
ART 105 Survey of Art II (3)	AR_H_A 1120	◆HST 240 Missouri Hist (3)	HIST 2440
ART 107 Modern Art (3)	AR_H_A HUM	◆PSC 102 US & MO Govt Const (3)	POL_SC 1100
ART 112 Intro to Art (3)	ART_GNR1010	PSC 103 Current Pol Iss (3)	POL_SC SSC
ENG 105 Lit Types:Ptry/Short St (3)	ENGLSH LIT	PSC 155 Internat Relations (3)	POL_SC 1400
ENG 106 Lit Types:Drama/Novel (3)	ENGLSH LIT	PSC 250 IS: Model UN (3)	POL_SC SSC
ENG 122 Film Apprec: Intro Cinema (3)	FILM_S HUM	PSC 250H IS: Model UN Hnr (3)	POL_SC SSC
ENG 143 Lit for Children (3)	ENGLSH LIT		
ENG 215 World Lit Before 1650 (3)	ENGLSH LIT	Foreign Language	
ENG 215H Honors World Lit (3)	ENGLSH LIT	FRN 101 Begin French (5)	FRENCH 1100
ENG 216 World Lit After 1650 (3)	ENGLSH LIT	FRN 102 Interm French (5)	FRENCH 1200
ENG 225 Engl Lit Before 1800 (3)	ENGLSH 2200	FRN 201 Fren Gram & Comp (3)	FRENCH 2100
ENG 226 Engl Lit After 1800 (3)	ENGLSH 2200	GRM 101 Begin German (4)	GERMAN 1100
ENG 228 Amer Lit Before 1865 (3)	ENGLSH 2300	GRM 102 Intermed German (4)	GERMAN 1200
ENG 229 Amer Lit After 1865 (3)	ENGLSH 2300	SPN 101 Begin Spanish (5)	SPAN 1100
ENG 235 Shakespeare Plays (3)	ENGLSH LIT	SPN 102 Interm Spanish (5)	SPAN 1200
ENG 235H Honors Shakespeare (3)	ENGLSH LIT	SPN 201 Span Gram & Comp (3)	SPAN 2100
ENG 250 Mythology (3)	CL_HUM 1060		
ENG 250H Honors Mythology (3)	CL_HUM 1060		
ENG 255H Honors Lit Types Poetry (3)	ENGLSH LIT		
HUM 125 Sem in World Cult (1-3)	MISC HUM		
HUM 250H Honors Hum (3)	MISC HUM		
HUM 260 Liberal Arts Sem (3)	MISC HUM		
HUM 260H Hon Liberal Arts Sem (3)	MISC HUM		
MSC 101 Fund of Music (3)	MUSIC_N1211		
MSC 103 Music Theory I (4)	MUS_THR1220 & 1230		
MSC 104 Music Theory II (4)	MUS_THR1221 & 1231		
MSC 131 Appreciation of Music (3)	MUSIC_N1310		
MSC 133 Jazz Appreciation (3)	MUSIC_NHUM		
MSC 135 Hist of Rock & Roll (3)	MUSIC_NHUM		
MSC 137 World Music (3)	MUSIC_N1313		
MSC 231 Music Lit Before 1750 (3)	MUSIC_NHUM		
MSC 232 Music Lit After 1750 (3)	MUSIC_NHUM		
PHL 101 Logic (3)	PHIL 1200		
PHL 102 Intro to Phil (3)	PHIL 1000		
PHL 201 World Religions (3)	REL_ST 2110		
PHL 202 Ethics (3)	PHIL 1100		
PHL 202H Honors Ethics (3)	PHIL 1100		
PHL 203 Medical Ethics (3)	PHIL 1150		
SPD 120 Theatre Appreciation (3)	THEATR 1100		
SPD 120H Hnrs Theatre Appreciatn (3)	THEATR 1100		
SPD 175 Public Speaking (3)	COMMUN 1200		
SPN 253 Span Reading (3)	SPAN HUM		